

## WEST Search History





DATE: Tuesday, January 17, 2006

| Hide?                    | <u>Set</u><br><u>Name</u> | <u>Query</u>  | <u>Hit</u><br><u>Count</u> |
|--------------------------|---------------------------|---|----------------------------|
|                          |                           | <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>   |                            |
| <input type="checkbox"/> | L13                       | neuro\$6 same L10   | 26                         |
| <input type="checkbox"/> | L11                       | phosphatase? same L10   | 21                         |
| <input type="checkbox"/> | L10                       | (gene or sequence or polynucleotide or clone or recombinant) same L9  | 3531                       |
| <input type="checkbox"/> | L9                        | ((lipid adj protein adj phophatase) or (phosphatidate adj phosphatase) or (phosphatidic adj acid adj phosphatase) or (acid adj phosphatidyl adj phosphatase) or (phosphatic adj acid adj hydrolase)or lpp or prg) | 10871                      |
| <input type="checkbox"/> | L8                        | treat\$5 same L7  | 5                          |
| <input type="checkbox"/> | L7                        | neuro\$5 same L6  | 31                         |
| <input type="checkbox"/> | L6                        | (gene or sequence or polynucleotide or clone or recombinant) same L5  | 165                        |
| <input type="checkbox"/> | L5                        | ((lipid same protein same phophatase) or (phosphatidate same phosphatase) or (phosphatidic same acid same phosphatase) or (acid same phosphatidyl same phosphatase) or (phosphatic same acid same hydrolase))     | 324                        |

END OF SEARCH HISTORY

# NiceZyme View of ENZYME: EC 3.1.3.4

## Official Name

**Phosphatidate phosphatase.**

## Alternative Name(s)

**Phosphatidic acid phosphatase.**

## Reaction catalysed

A 3-sn-phosphatidate + H(2)O <=> a 1,2-diacyl-sn-glycerol + phosphate

## Cross-references

Biochemical Pathways;  
map number(s)

F6 ; D8

BRENDA

3.1.3.4

PUMA2

3.1.3.4

PRIAM enzyme-specific  
profiles

3.1.3.4

Kyoto University LIGAND  
chemical database

3.1.3.4

IUBMB Enzyme  
Nomenclature

3.1.3.4

IntEnz

3.1.3.4

MEDLINE

Find literature relating to 3.1.3.4

MetaCyc

3.1.3.4

UniProtKB/Swiss-Prot

Q05521, DPP1\_YEAST;    O88956, LPP1\_CAVPO;    O14494, LPP1\_HUMAN;  
 Q61469, LPP1\_MOUSE;    P60588, LPP1\_PIG;    O08564, LPP1\_RAT;  
 Q04396, LPP1\_YEAST;    O43688, LPP2\_HUMAN;    Q9DAX2, LPP2\_MOUSE;  
 Q8K593, LPP2\_RAT;    O14495, LPP3\_HUMAN;    Q99JY8, LPP3\_MOUSE;  
 P97544, LPP3\_RAT;    Q9V576, WUN\_DROME;

View entry in original ENZYME format

All UniProtKB/Swiss-Prot entries referenced in this entry, with possibility to download in different formats, align etc.

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 3.1.3.-

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 3.1.-

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 3.-



## ENZYME: 3.1.3.4

[Help](#)

**Entry** EC 3.1.3.4 Enzyme

**Name** phosphatidate phosphatase;  
phosphatic acid phosphatase;  
acid phosphatidyl phosphatase;  
phosphatic acid phosphohydrolase

**Class** Hydrolases  
Acting on ester bonds  
Phosphoric monoester hydrolases

**Sysname** 3-sn-phosphatidate phosphohydrolase

**Reaction** A 3-sn-phosphatidate + H<sub>2</sub>O = a 1,2-diacyl-sn-glycerol + phosphate  
[RN:R02239 R06520 R06521 R06522]

**Substrate** 3-sn-phosphatidate [CPD:C00416]  
H<sub>2</sub>O [CPD:C00001]

**Product** 1,2-diacyl-sn-glycerol [CPD:C00641]  
phosphate [CPD:C00009]

**Pathway** PATH: map00561 Glycerolipid metabolism  
PATH: map00564 Glycerophospholipid metabolism  
PATH: map00600 Glycosphingolipid metabolism

**Ortholog** KO: K01080 phosphatidate phosphatase

**Genes** HSA: 8611(PPAP2A) 8612(PPAP2C) 8613(PPAP2B)  
MMU: 19012(Ppap2a) 50784(Ppap2c) 67916(Ppap2b)  
RNO: 192270(Ppap2b) 246115(Ppap2c) 64369(Ppap2a)  
DME: CG8804-PA(CG8804) CG8804-PB(CG8804)  
TBR: Tb10.389.0020 Tb10.61.2970  
TCR: 511277.370

**Reference** 1  
Smith, S.W., Weiss, S.B. and Kennedy, E.P. The enzymatic  
dephosphorylation of phosphatidic acids. J. Biol. Chem. 228 (1957)  
915-922.

**Other DBs** IUBMB Enzyme Nomenclature: 3.1.3.4  
ExPASy - ENZYME nomenclature database: 3.1.3.4  
ERGO genome analysis and discovery system: 3.1.3.4  
BRENDA, the Enzyme Database: 3.1.3.4  
CAS: 9025-77-8

**LinkDB** [All DBs](#)

=> Original format

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DBGET integrated database retrieval system, GenomeNet